NETRO

Access Control

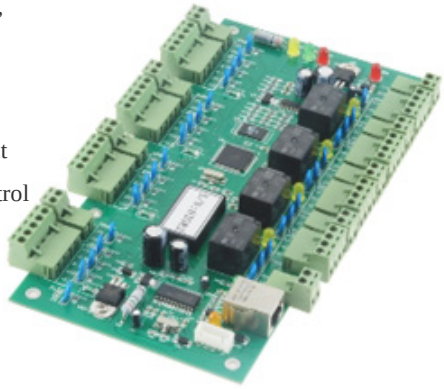
N-AE400
Four-door TCP/IP Network Access Control Board

Netro Access Control Board series is a new generation products.

Netro tries to reach a prima balance among “cost control” “function suitability” and “stability”.

In line with the product philosophy of “Live Safely and Conveniently”, by adopting a powerful processor, AE series serve more as a Security Management Platform than a mere access controller NS series can work with alarm, fire control and CCTV devices.

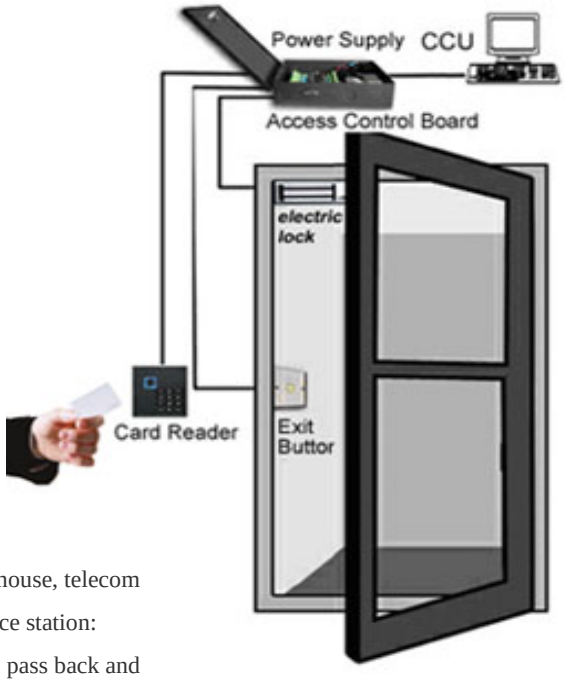
The series also work with Access control management software to provide snapshot, video monitoring, attendance, on-line patrol function and so on.



Function Introduction:

Conventional Function:

offline operation
real time supervision
photo display
mass storage
flexible user privilege setup
remote unlocking
multi-user supervision
quick setting
convenient checking and query
revisable and printable report form
report can be exported to excel file
card + password unlocking; alarm for long time un-closing
alarm for invalid card swiping
first card unlocking
alarm for illegal break in
unlocking at definite time
e-map.



Professional function: for professional users such as bank, cash house, telecom station, Education Institutes power supply station, prison and police station: interface locking; intimidation alarm; integrated fire control; anti- pass back and anti-tail; interlocking; multi-card unlocking; emergency double locking; in door population checking; unlocking based on internal and external validation.

Access control management software also includes all-in-one-card management system such as normal shift and multi-shifts time attendance management system; fixed ration dining management system; meeting attendance management system; online patrol management system and security alarm management system.

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Features & Advantages	Description	Purpose	
Whole Management Philosophy	Refuse the request of personalized Produce products	Wiegand thought provisional modify the software and make the product , it is will being potential problems without science experimental and detected, the development plan that without the science survey and research should have hidden mistakes because without full considerat, so it will have problem for imporve in the future! In the surface that is sake of customers for we are accept the request of the personalized modify ,but that is behavior of unresponsible for product stability !So we will refuse all of the request for personalized modify, can not do for some customers willing payment ! We ensure that each product that produce by Wiegand were passed strict science development and test !	Stability
	Welcome and Listening the marketing demand and customer request	Althought we refuse all the request of personalized modify , we are good to listen the suggest and advice of customers, we have whole system for search the demand of clients .! Will regular discuss and analysis the marketing and technology , then improve our hardware and software ,under the premise of make sure the quality ,keep the advanced of products !	Advance
	Refuse to sell nonstandard package and specification product 。	Arbitrary modify the product by the request of customer ,that only prove the corporation have not the rigorous quality and produce manage rule !For example as McDonald's , all over the world there have same taste anywhere ,that is because of strict science management rule and quality of products for McDonald ' s , also that is ont of resaon for the McDonald ' s can development !So Wiegand do not accommodate the request for nonstandard package , but we will explain to our customers patience !In the future our customers will earn more rpofit with our strict and science management rules !	Stability
	Insist on incorruptness distribution and purchase rules .	Wiegand is refuse the request of rebate , because of we thought we must pleased our customers with our product better performance, like Stability , Cost-effective and Convenience !We also have strictly plan for purchase department and finance department , ensure the chip and accessories purchase from informal channels and make sure our product ' s performance stability !	Stability
	Only choose famous company for purchsr chip and accessories	As the same we only choose the processing enterprise with better Credibility, advanced equipment and better management !By the simple and effective flow management , we are reduce the cost and enlarge sales upgrade the cost-effective ,At last we supply the best price to customers and let them earn more profit !	Stability
Controller Hardware Design Philosophy	Speedly operation circuit design .	Used internation top brand ATMEL CPU , count speedly , Instantaneous open the door without the delay when the data over 20000 pcs !	Advanced
	Great capacity save circuit design	Used the Flash like the USB driver , the data will save all life !In the marketing there have some companies used the old method as connect a battery in the outside to keep the data and clock information !It will lost the datas when the battery have problem !	Advance Stability
	Anti-death software dog and automatic check circuit design	Circuit will automatic check the system weather death with the full power , it will automatic reset after death , give us the feeling as the system will not death for ever !	Stability Advanced
	Real-time clockaccurate circuit design	Used the bulid-in Lithium battery clock module ,the datas will not lost when systerm Short-circuit ,it will saved for long times as 20 years !	Advanced Convenience
	Third class anti-thundercircuit design (Protection for over voltage)	Used advanced anti-lighting with Triple protection ,5000V induction lighting can not damage , anti-wave protection the over voltage !	Stability Advanced Convenience
	Automatic insulate trouble srmat communication circuit design	The type of communication for RS232 and RS485 ,that avoid choose cable , our product can automatic choose type of communication based on which interface you choose ,simple operation !The controller will automatic check fault ,it will isolation itdelf from system , avoid impact other controller communication !And the engineer convenience find fault in the system !	Convenience Advanced
	Big load relay output circuit design	Connect with the bigger load current then electronic lock ,that will application in other control filed, will not have demage for delay work with over current electronic lock !	Stability Compatibility
	Alarm output and fire protection extend board circuit design	We also have some exten functon , just need connect a extend module ,included the fire alarm , stress alarm ,ext Satisfied different request for customers !	Advanced Ecomomicial
	Defend fault connect circuit design	The systerm made some design to prevent the mistake connect in the process of construction, for example ,the power of card reader mistake connect or short-circuit,the database cable connect with power supply ,that need not change Insurance, and return to factory ,just connect them again with right way , saved the time and money !	Convenience
Management software Design Philosophy	Closely used the development platform with completely campatibility Wiegand technology	Completely application Microsoft VB net development environment and Access .SQL database ,refuse to use the third software and technology , in order to the compatibility is better for the customers install software in the Microsoft operstion system	Advanced Compatibility
	Mulit-language suit more customers	There have three type of languages for customer choose included the Simplifile Chinese ,Traditional Chinese and English ,there have different language version for different language operation system , of course can change the language in the software by yourself , Bring more convenience to customers !	Convenience Advanced
	Automatic change communication type	Support RS232, RS485and TCP/IP communication type ,and really support LAN , Interner communication and management .the system will automatic change the communication type based on type of controller !	Convenience Advanced
	Approachable , easy understand , convenience operation interface	Powerful function and convenience operation, completely suit the software feature and habits of operation for Microsoft !The work of training will finished in short time with Shortcut menu and Humaniized design, The user and new staffer easy to learn and operation with user manual ! Remove the worries for end user !The operation guide help the user starting easily for manage access control software ! In the interface we are as far as possible avoid the abstract or specialization description !	Convenience
	Convenience Security improve method	Database will automatic improve when the software improve,need not specialization person to maintenance ,only need uninstall and install that ok !Database will automatic judge the version of software . add or delete words ,let customers get newest version of software ,The software will automatic reservation setting and specification of user ,the database will automatic compression in order to improve the effciency and speed for next time ! Also it will automatic saved datas in last 4 months !In case the database demage the datas lost !	Convenience Advanced Security
	“Bulk setting” have higher efficiency	We install the bulk set funcation in the some interface with our software, give the user high effciency and relax !For example ,the persimission bulk setting, that can setting the persimission for a door with all the person allow enter and out .,also can bulk delete them by bulk !For leave in the time attendance we also can bulk setting the card number ,name ,department ,and bulk import and export by Excel !	Convenience
	“Glance” type of interface and report	We are almost set all the normal functions in the main control interface,with clearly button and right clinck menu for powerful function operation !At the same time for system interface concise ,we are give all the practic function and report items to customers !	Convenience
	Hidden the function design	Although our software have powerful function. Fit all kind of field requests for access control system ,we have hiden the abnormal functions in the extend function,when the customers need the function ,open the extend function is ok ,or hide them !Customers need not study and maste how to use ,In the system included the many differents use for specific industry ,for example the anti-passback function usualy used in army ; the interlock function and mulit-card open the door used in bank system ,satisfied all the request of customer !	Convenience Advanced
	User-defined included report query output and print	With our design all the result of query will print directly as the same as you query ,some normal reports can saved items which one you need query or print ,plan the order for print ,and save definition format of report ,next can usr this format directly. Some reports will speedly output with Excel !	Convenience
	Humanized software interface “ Operation report detail ” easy to find the fault .	The software automatic check the specifications and datas after customers input ,will refer user when you input wrong data, in order to user find fault and modify in time !When the customers use software all the operation with report for somebady how to operation the system in which time ,and how about the system reply ,in order to support the key to contractors for find fault,also the report will as the evidence for the manager who violation the rule of company !	Convenience Advanced
	Illegibility search function	Many interfaces can quick search by (Ctr+F) , the user will find important information fast !	Convenience
	Real-time clue on colour and sound function	Will show the photo who punch card enter the door in the real time survillence function ,it will remark green for legitimate card, orange will show as illegal card or refuse enter card, the alarm will based on red report and notice manager, Computer will notice manager when have new report avoid need watch company screen long time . bad for health and eyes 。	Humanized
	Interface locked function	If the manager want leave a monent ,that can lock the interface ,the background software will be work and surveillence also ,other person can not operation the software in that time ,after the manager back ,input the password that will back the operation interface !	Security
	Manifold type issure card	We have 2 way to issure card to staffers , one is by handle ,also can point a card reader issure card bulk ,if the card number is continuous that can input the strart number and end number , also can punch card and input the card number by USB issure device on desktop !	

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Single Access Control Board		Two-door Access Control Board		Four-Door Access Control Board	
Model #	N-AM100	N-AE100	N-AM200	N-AE200	N-AM400	N-AE400
Communication	RS232 RS485	TCP/IP 10M/100M adaptive	RS232 RS485 no need jumper and adaptive 9600 bps	TCP/IP 10M/100M adaptive	RS232 RS485 no need jumper and adaptive 9600 bps	TCP/IP 10M/100M adaptive
Description	Control 1 door, get in and out door by swiping card, or get in by swiping card and get out door by button		Control 2 doors, get in and out door by swiping card, or get in by swiping card and get out door by button		Control 4 doors, get in the door by swiping card, and get out door by button	
Size of PCB board	160mm *106mm		160mm *106mm		218mm *106mm	
Size of Case	273mm*228mm*65mm					
Power Supply	12VDC 4-7A					
Power Consumption of Circuit Board	Less than 100mA					
Input Format of Reader	Wiegand 26 (All card reader with compatible protocol, such as Motorola 、 HID 、 EM 、 、 Mifare one etc)					
Quantity of Readers	1pair		2 pairs		4 pcs	
Door Controled	1pair		2 pairs		4 pcs	
Door opening time extending setting	1-600 seconds(adjustable)					
Max qty of controller	N*256PCS	No limit	N*256PCS	No limit	N*256PCS	No limit
---	Remark: N denotes q ' ty of computer serial prot or q ' ty of 485hub port, support 256pcs ports					
Operation Temperature	- 40 C~70 C					
Operation Humidity	10-90 % RH , No Condensation					
Qty of users	20,000 Users					
Qty of Event Buffers(offline)	100,000 event buffers					
Power interruption protection measure	High Speed Memory, Records never lose					
Max Distance from Reader to Controller	100m (suggestion distance 80m)					
Max Distance between Controllers	RS232: Communication Distance less than 13m, suggestion distance is 3m or less RS485: bus line max length 1200m, suggestion length 1000m or less, if expansion device added, the distance could be 3000m TCP/IP: Depends on net coverage area					
Collocations	PCB board, case, power, power line, serial port communication line, software, manual, certificate, key(2pcs), carton					
Alarm for long time door open, ilegal break in, intimidate	Yes					
Fire and alarm linkage	If no connection with the expansion board, only has software interface alarm, and drive the computer speaker. If connected with expansion board, is able to alarm by hardware, if connected with strengthened expansion board, then is able to Security alarm					
Complsive open and close door at long time	Yes					
Open door in remote distance	Yes					
Inter block			Yes	Yes	Yes	Yes
Anti pass back and tail	Yes	Yes	Yes	Yes		
Multi-card open door	Yes					
Open long time at specified time	Yes					
Electronic map	Yes					
Urgency locking	Yes					
First card unlocking	Yes					
Unlock based on internal and external validation	Yes					
Keypad (card+passwor, supper password)	Yes					